

## Water Truck

Picture just for reference



Image: Water Truck



Image: Chasis for Water Truck

### General Parameters

Product name	Water Truck	Vehicle model	CLW5160GQW6
GVW	16490 kg	Rated capacity	10000 kg
Curb weight	8400 kg	Dimensions	8470×2410×3090 mm
Max speed	120 km/h	Passengers	2
Color & Logo Design	Customized as per the customer's requirement		



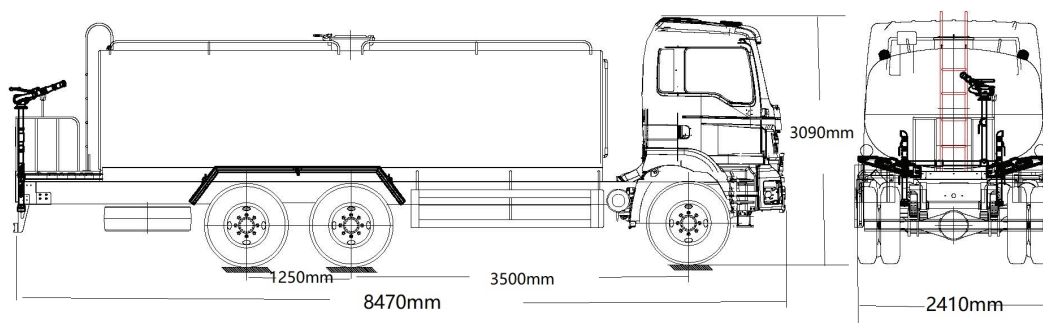
## 265 HP, 6 Cylinder Inline Diesel Engine with 1000 Nm Torque

### Engine Parameters

Engine Make	Yuchai	Engine Model	YC6A265-33
Engine Type	Turbocharged Water cooled Diesel Engine	Displacement	7255 CC
Transmission System	6x6 Type, 9 Speed (9F+1R) manual	Emission standard	Euro 3

### Parameter of chassis (Design and fabricated at Dongfeng Motors Chasis)

Chassis model	EQ2102GA6DJ		
Drive side	LHD, Right Side Traffic	Steering	Hydraulic Power Steering
Payload	10 Ton	Fuel Tank Capacity	400 Liters
Ground Clearance	400 mm	Tyres.	Front: 2 , Rear: 4 Spare: 1
Tyre size	80R22.5 (Standard)	Gradeability	20 Degrees



 <b>程力专用汽车股份有限公司</b> CHENGLI SPECIAL AUTOMOBILE CO., LTD				共 张	第 张
设计		零件名称		比例	图例
审核				重量	千克 (kg)
工艺		批准		材料规格	
				图纸编号	

**Tank body parameter**

Brand	Dongfeng	Dimension of Tank	4300*2400*1420mm
Tank volume	10 m <sup>3</sup> (Equivalent to 10000 liters)	Cross section of tank body	Similar oval
Tank body	4.2mm Q235 Carbon steel	Tank head	4.2mm Q235 Carbon steel
Wave board	4 mm Q235 Carbon steel	Manhole	Aluminium alloy of manhole in EU standard
Tow Hook	Equipped	Level Indicator	Equipped
Water Tanker	10000 Ltrs Tank with water level indication on tank with partition.		
Water Tanker Construction	4 mm thick Outer Shell- Mild Steel. Platform with man holes, ladder and all fittings, hinges, valves and clamps/couplings - ISO Standard		
Water Pump	Auxiliary diesel pump with high density cloth type delivery pipe		

Manhole  
anti-slip walk way





Embedded Water Level Indicator System



Storage Rack for Hose pipe



Tow Hook equipped on Truck





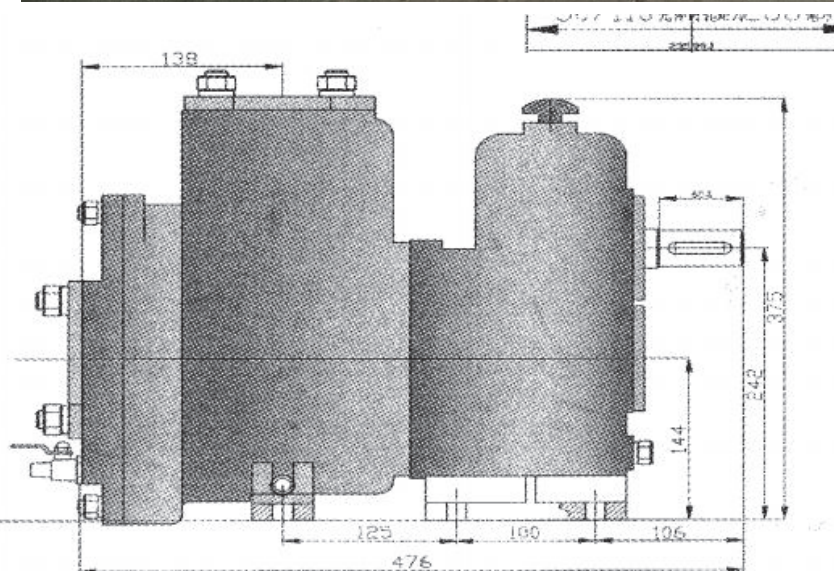
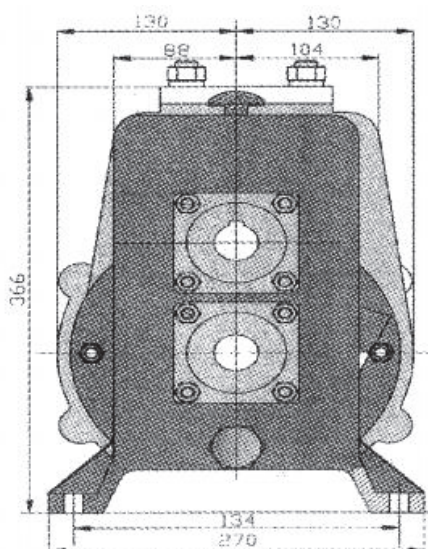
## Water Pump

**Model :**

**CLW65QZF-50/50N**

**Technical Specification**

Flow (m <sup>3</sup> /h)	: 50
Range(m)	: 50
RPM	: 1450
Power (KW)	: 15.5
Efficiency (%)	: 60



30 Meter High Density Cloth Type  
Delivery Pipe with necessary  
clamps and fittings



## Structural Features:

1. CLW65QZF-50/50N is high-power self-priming centrifugal pump with a speed-up box, which is mainly composed of pump body, impeller, mechanical seal, shaft, speed-up box and other components.
2. The power required for the pump to work is directly provided by the truck engine through the power take-off. It can also be driven by electric motor or diesel engine as ground pumping station.
3. When the water source contains mud, sand and debris, the inlet of the suction pipe should be placed in the net cover, the total area of the net cover through holes should be greater than  $300\text{cm}^2$ , and the diameter of the mesh should be less than 6mm.
4. The shaft seal of the pump adopts mechanical seal, so the pump operates reliably and has a long service life.

## Working principle

This type of pump adopts an external mixing axial liquid return pump body structure, and the pump body is composed of a suction chamber, a liquid storage chamber, a return hole and a gas-liquid chamber. After the pump is started, the impeller sucks the liquid stored in the suction chamber and the air in the suction pipeline together, and they are completely mixed in the impeller. Under the action of centrifugal force, the mixed liquid enters the gas-liquid separation chamber through the extrusion chamber. Light, the gas is separated from the liquid and discharged from the outlet pipe, while the liquid sinks in the gas-liquid separation chamber, returns to the outer edge of the impeller through the return hole, and performs another gas-liquid mixing-separation process, in turn cycle until the gas in the suction pipe is exhausted and filled with liquid, and the self-priming process is completed; when the water flows out of the impeller, a vacuum appears in the center of the impeller, and the water in the suction pool enters the impeller through the suction pipe under the action of atmospheric pressure. , The water is also continuously discharged and sucked in, forming a continuous pumping effect.

## Matters needing attention

1. Before the pump works, the pump must be filled with water, otherwise the mechanical seal will be damaged and cause water leakage. When working, the inlet pipe must not leak air, and the water suction port must be submerged in water to prevent air inhalation.
2. When the temperature is lower than zero, after the work is completed, the water in the pump must be drained, otherwise the pump box will burst due to freezing.
3. When the water source contains sediment and sundries, it should be strictly prevented from inhaling and damaging the ring mechanical seal.
4. Within the normal self-priming height, if the pump does not discharge water within 2 minutes after starting, please stop the pump immediately for inspection.



## 二、 ACCESSORIES AND SPARES

Accessories	<ol style="list-style-type: none"> <li>1. First Aid Box with Kit - 1 Pcs</li> <li>2. Fire Extinguisher 9 kg- 2 Pcs</li> <li>3. 25 Ton Hydraulic Jack - 1 Pcs</li> <li>4. Std. Tools Kit Set (<i>including tyre lever, spanner, socket and others as required</i>) - 1 set</li> <li>5. Metallic Jerry Can (20 Ltr) with holder - 1 pcs</li> <li>6. Spotlight - 2 pcs,</li> <li>7. Roof Mounted Working Lights ( 1 piece),</li> </ol>
Spare parts	<ol style="list-style-type: none"> <li>1. Fuel Filter - 2 sets</li> <li>2. Engine Oil Filter - 2 sets</li> <li>3. Head Light Bulb - 2 sets</li> <li>4. Side Mirror - 1 set</li> <li>5. Air Filter - 1 set</li> <li>6. Back Light Bulb - 2 sets</li> <li>7. Wiper Blade - 2 sets</li> <li>8. Fan Belt - 1 set</li> <li>9. Hub Oil Seal- 1 set.</li> </ol>

### Past UN Project:

